

**IEEE BROWDER J. THOMPSON MEMORIAL PRIZE AWARD  
RECIPIENTS**

- 1997 - KAI YEUNG (SUNNY) SIU  
Massachusetts Institute of Technology  
Cambridge, MA, USA  
and HONG-YI TZENG  
Lucent Technologies  
Holmdel, NJ, USA  
"On the Message and Time Complexity of  
Protocols for Reliable Broadcasts/Multicasts in  
Networks with Omission Failures," IEEE  
JOURNAL ON SELECTED AREAS IN  
COMMUNICATIONS, Vol. 13, No. 7, September  
1995, pp.1296-1308.
- 1996 - CARL W. BAUM  
Clemson University  
Clemson, SC, USA  
and VENUGOPAL V. VEERAVALLI  
Rice University  
Houston, TX, USA  
"A Sequential Procedure for Multihypothesis  
Testing," IEEE TRANSACTIONS ON  
INFORMATION THEORY, Vol. 40, No. 6,  
November 1994, pp. 1994-2007.
- 1995 - NO AWARD
- 1994 - OLIVER M. COLLINS  
The Johns Hopkins University  
Baltimore, MD, USA  
"The Subtleties and Intricacies of Building a  
Constraint Length 15 Convolutional Decoder,"  
IEEE TRANSACTIONS on Communications, Vol.  
40, No. 12, December 1992, pp. 1810-1819.
- 1993 - RAMSEY W. HADDAD  
Digital Equipment Corporation  
Palo Alto, CA, USA  
and ANTON T. DAHBURA  
Motorola Inc.  
Cambridge, MA, USA  
and ANUP B. SHARMA  
AT&T Bell Laboratories  
Murray Hill, NJ, USA  
"Increased Throughput for the Testing and  
Repair of RAM's with Redundancy," IEEE  
TRANSACTIONS on Computers, Vo. 40, No. 2,  
February 1991, pp. 154-166
- 1992 - BERTRAND S. CLARKE  
Purdue University  
West Lafayette, IN, USA  
and ANDREW R. BARRON  
Univeristy of Illinois, Urbana  
Champaign, IL, USA  
"Information-Theoretic Asymptotics of Bayes  
Methods," IEEE TRANSACTIONS on information  
Theory, Vol. 36, No. 3, May 1990, pp. 453-471
- 1991 - KESHAB K. PARHI  
University of Minnesota  
Minneapolis, MN, USA  
"Algorithm Transformation Techniques for  
Concurrent Processors," PROCEEDINGS OF  
THE IEEE, December 1989
- 1990 - ROBERTO G. ROJAS  
The Ohio State University  
Columbus, OH, USA  
"Wiener-Hopf Analysis of the EM Diffraction by  
an Impedance Discontinuity in a Planar Surface  
and by an Impedance Half-Plan." IEEE  
TRANSACTIONS on Antennas and Propagation,  
January 1988
- 1988 - LOTHAR THIELE  
University of the Saarland  
Muenchwen, West Germany  
"On the Sensitivity of Linear State-Space  
Systems," IEEE TRANSACTIONS on Circuits  
and Systems, May 1986

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- 1987 - JONATHAN P. WEBB  
McGill University  
Montreal, Canada  
and DANIEL WELT  
MPB Technologies, Inc.  
Dorval, Canada  
"Finite-Element Analysis of Dielectric Waveguides with Curved Boundaries," IEEE TRANSACTIONS on Microwave Theory and Techniques, July 1985
- 1986 - JOHN K. OUSTERHOUT  
University of California  
Berkeley, CA, USA  
"Corner Stitching: A Data Structuring Technique for VLSI Layout Tools," IEEE TRANSACTIONS on Computer-Aided Design, January 1984
- 1985 - DOUGLAS MACGREGOR  
and DAVID S. MOTHERSOLE  
Motorola Inc.  
Austin, TX, USA  
"Virtual Memory and the MC68010," IEEE MICRO, June 1982
- 1984 - JOHN C. CURLANDER  
California Institute of Technology  
Pasadena, CA, USA  
"Location of Spaceborne SAR Imagery," Transactions on Geoscience and Remote Sensing, July 1982  
"Virtual Memory and the MC68010," IEEE MICRO, June 1983
- 1983 - DANIEL S. KIMES  
and JULIE A. KIRCHNER  
NASA/Goddard Space Flight Center  
Greenbelt, MD, USA  
"Modeling the Effects of Various Radiant Transfers in Mountainous Terrain on Sensor Response," IEEE TRANSACTIONS on Geoscience and Remote Sensing, April 1981
- 1982 - STIG SKELBOE  
Elektronikcentralen  
Horsholm, Denmark  
"Computation of the Periodic Steady-State Response of Nonlinear Networks by Extrapolation Methods," IEEE TRANSACTIONS on Circuits and Systems, March 1980
- 1981 - LAWRENCE H. GOLDSTEIN  
Sandia Laboratories  
Albuquerque, NM, USA  
"Controllability/Observability Analysis of Digital Circuits," IEEE TRANSACTIONS on Circuits and Systems, September 1979
- 1980 - ALAN S. WILLSKY  
Massachusetts Institute of Technology  
Cambridge, MA, USA  
"Relationships Between Digital Signal Processing and Control and Estimation Theory," PROCEEDINGS OF THE IEEE, September 1978
- 1979 - MARVIN B. LIEBERMAN  
Harvard University  
Cambridge, MA, USA  
"A Literature Citation Study of Science-Technology Coupling in Electronics," PROCEEDINGS OF THE IEEE, January 1978
- 1978 - DAVID A. HOUNSHELL  
University of Delaware  
Newark, DE, USA  
"Bell and Gray: Contrasts in Style, Politics, and Etiquette," PROCEEDINGS OF THE IEEE, September 1976
- 1977 - MICHAEL R. PORTNOFF  
Massachusetts Institute of Technology  
Cambridge, MA, USA  
"Implementation of the Digital Phase Vocoder Using the Fast Fourier Transform," IEEE TRANSACTIONS on Acoustics, Speech and Signal Processing, June 1976

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- 1976 - RUSSELL M. MERSEREAU  
Massachusetts Institute of Technology  
Cambridge, MA, USA  
and DAN E. DUDGEON  
Bolt, Beranek, & Newman  
Cambridge, MA, USA  
"Two Dimensional Digital Filtering,"  
PROCEEDINGS OF THE IEEE, April 1975
- 1975 - NUGGEHALLY S. JAYANT  
Bell Laboratories  
Murray Hill, NJ, USA  
"Digital Coding of Speech Waveforms: PCM,  
DPCM, and DM Quantizers, PROCEEDINGS OF  
THE IEEE, May 1974
- 1974 - JORN JUSTESEN  
Technical University of Denmark  
Lyngby, Denmark  
"A Class of Constructive Asymptotically Good  
Algebraic Codes," IEEE TRANSACTIONS on  
Information Theory, September 1972
- 1973 - JERRY MAR  
Bell Telephone Labs  
Murray Hill, NJ, USA  
"A Two-Terminal Transistor Memory Cell Using  
Breakdown," IEEE JOURNAL of Solid-State  
Circuits, October 1971
- 1972 - G. DAVID FORNEY, JR.  
Codex Corporation  
Newton, MA, USA  
"Convolutional Codes I: Algebraic Structure,"  
IEEE TRANSACTIONS on Information Theory,  
November 1970
- 1971 - LLOYD J. GRIFFITHS  
Barry Research Corporation  
Palo Alto, CA, USA  
"A Simple Adaptive Algorithm for Real-Time  
Processing in Antenna Arrays," PROCEEDINGS  
OF THE IEEE, October 1969
- 1970 - JOHN D. RHODES  
Microwave Development Laboratories  
Natick, MA, USA  
"The Stepped Digital Elliptic Filter," IEEE  
TRANSACTIONS on Microwave Theory and  
Techniques, April 1969
- 1969 - MALVIN CARL TEICH  
Columbia University  
New York, NY, USA  
"Infrared Heterodyne Detection,"  
PROCEEDINGS OF THE IEEE, January 1968
- 1968 - MICHAEL L. DERTOUZOS  
Massachusetts Institute of Technology  
Cambridge, MA, USA  
"PHASEPLOT: An On-Line Graphical Display  
Technique," IEEE TRANSACTIONS on  
Electronic Computers, April 1967
- 1967 - LEON O. CHUA  
Purdue University  
West Lafayette, IN, USA  
and RONALD A. ROHRER  
State University of New York  
Stonybrook, NY, USA  
"On the Dynamic Equations of a Class of  
Nonlinear RLC Networks," IEEE  
TRANSACTIONS on Circuit Theory, December,  
1965
- 1966 - KENNETH M. JOHNSON  
Texas Instruments Incorporated  
Dallas, TX, USA  
"High-Speed Photodiode Signal Enhancement at  
Avalanche Breakdown Voltage," IEEE  
TRANSACTIONS on Electron Devices, February,  
1965

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1965 - STEVEN R. HOFSTEIN  
and FRED P. HEIMAN  
RCA Laboratories  
Princeton, NJ, USA

"The Silicon Insulated-Gate Field-Effect  
Transistor," PROCEEDINGS OF THE IEEE,  
September 1963

1964 - HARRY B. LEE  
Massachusetts Institute of Technology  
Cambridge, MA, USA

"A New Canonic Realization Procedure," IEEE  
TRANSACTIONS on Professional Technical  
Group on Circuit Theory, March 1963

1963 Chih-Tang Sah  
1962 Henri B. Smets  
1961 Eiichi Goto  
1960 J. W. Gewartowski  
1959 F. H. Blecher  
1958 Arthur Karp  
1957 D. A. Buck  
1956 J. E. Bridges  
1955 B. D. Smith, Jr.  
1954 R. L. Petritz  
1953 R. C. Booton, Jr.  
1952 H. W. Welch, Jr.  
1951 A. B. Macnee  
1950 J. F. Hull  
1950 A. W. Randals  
1949 R. V. Pound  
1948 W. H. Huggins  
1947 C. L. Dolph